

Mechanics

SOV/4201

TABLE OF CONTENTS:

<u>Glushchenko I.P.</u> . Natural Vibrations of Single-Mass Systems With Nonsymmetrical Force Characteristics	3
Ryabinin, S.N. Impact Stresses in the Kinematic Chain of an Elastic Drive System	9
Shats, Ya Yu. Relationship Between General and Individual Transmission Ratios in a Regular Single Uniaxial Transmission	15
Tsviyak, P.B. Problem of Investigating a Space Slider-Crank Mechanism	18
Tsviyak, P.B. Plotting of a Diagram of Accelerations of a Space Slider-Crank Mechanism by Methods of Descriptive Geometry	35
Tsviyak, P.B. Graphic Method of the Synthesis of a Mechanism According to a Given Space Trajectory	31
Bazilevich, A.I., and B.F. Levitskiy. Analogy Between the Pressure Motion of Noncompressible Liquid and Liquid Containing Gas in a Porous Medium	39

Card 2/3

Mechanics

SOV/4201

Bazilevich, A.I. Calculating Normal Sections of Stepped Beds of Mountain Streams

41

Bazilevich, A.I. Reservoirs for Protecting Bottom Lands From Flooding 45

Klimenko, F.Ye. Taking Into Account the Action of a Transverse Force on the Carrying Capacity of the Cross Section of a Beam in Bending 55

Klimenko, F. Ye. Investigating the Work of Reinforced-Concrete Cantilever Variable-Section Elements in the Vicinity of the Maximum Moment During Bending

Gradyuk, I.I. Carrying Capacity of Prestressed Reinforced-Concrete Elements in Bending

65

AVAILABLE: Library of Congress

Card 3/3

AC/pw/gmp
9-2-60

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

RECORDED AND INDEXED IN THE LIBRARY OF THE
CENTRAL INTELLIGENCE AGENCY, WASHINGTON, D.C.

RECORDED AND INDEXED IN THE LIBRARY OF THE CENTRAL INTELLIGENCE
AGENCY, WASHINGTON, D.C. ON SEPTEMBER 24, 2001.
RECORDED AND INDEXED IN THE LIBRARY OF THE CENTRAL INTELLIGENCE
AGENCY, WASHINGTON, D.C. ON SEPTEMBER 24, 2001.

APPROVED FOR RELEASE: 09/24/2001

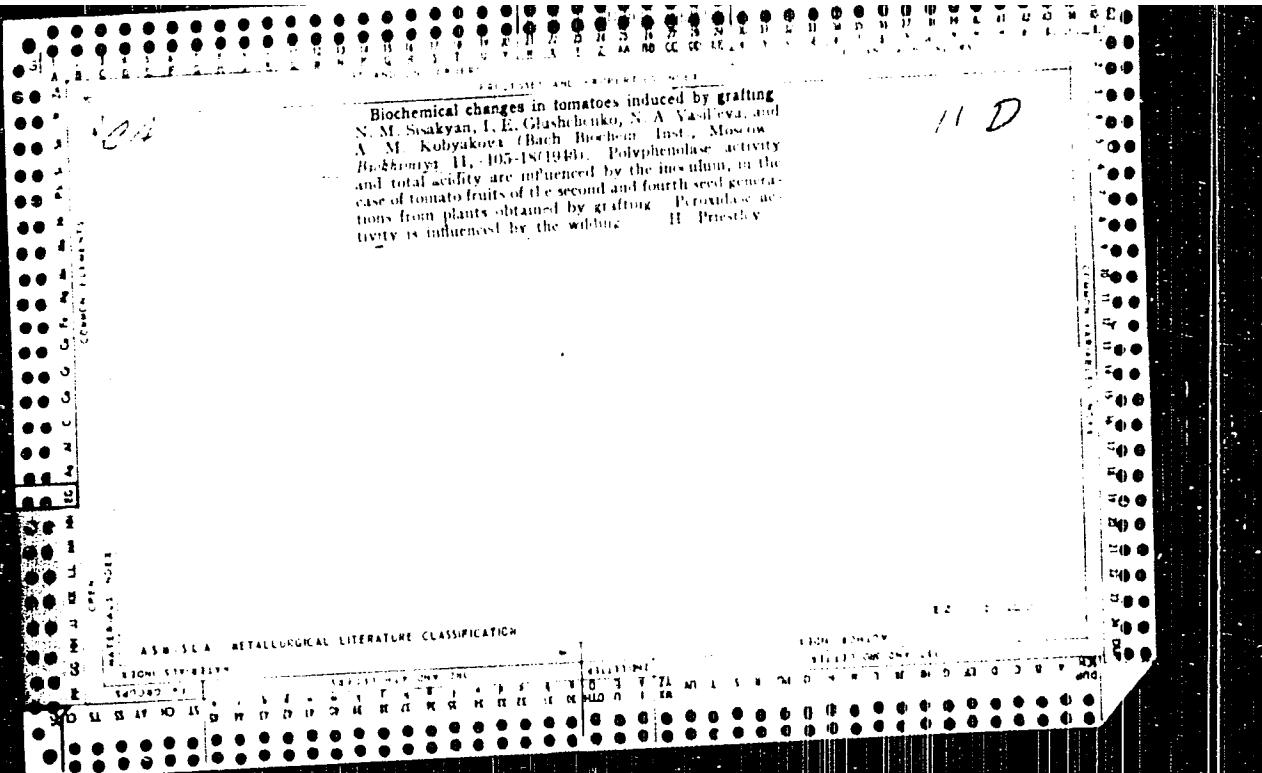
CIA-RDP86-00513R000515420012-1"

GLUSKCHENKO, Ilya

Calculation of second derivative statistics with minor corrections.
Nauk. zapiski po radioelektronike i radiofizike, No. 1, 1971
(MTRA 17800)
Approximate solution and adjustment of a matrix contour after a regularization factor. (cont'd.)

GLUSHCHENKO, I.P., kand. tekhn. nauk, dotsent; KURENDASH, P.S., cand. tekhn. nauk, dotsent; SOPIN, V.I., kand. tekhn. nauk

Book reviews and bibliography. Vest. mashinostr. 45 no. 1;
85-88 Ja '65.
(MIL 12;3)



GLUSHCHENKO, I. Ye.

"Vegetative Hybridization as a Method for Controlling Shape-Formation Processes
in Plants," Sub. 23 Jun 47, Inst of Genetics, Acad Sci USSR.
Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum.No.457, 18 Apr 55

GLUSHCHENKO, I. Ye.

"Variability of Some Features of Somatic Descendants of the Furbert Tomato Form Grafting on Various Uncultivated Plants."

Agrob. 2, 1948. Dr. Biol. Sci. (Inst. Genetics, Acad. Sci.) -cl9h9-.

COMMUNIST, N. W.

USSR/Medicine--Hybridity
Medicine--Plants

Mar/Apr 48

"Hybrid Variations During the Transplantation
of Some 'Solanaceae', I. Ye. Glushchenko, 1½ pp

"Agrobiologiya" No 2

Lists results obtained by Dr Kostov in his
experiments studying subject phenomenon.

1/49T^WY

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

Document released under the
Freedom of Information Act

This document contains neither
recommendations nor conclusions of the CIA or the U.S. Government;

it is the property of the CIA, is loaned to your agency, and is
(Excluded Library)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

(A)

Inheritance of acquired biochemical factors in the seed progeny of vegetative hybrids. N. M. Soskina, I. I. Glushchenko, and N. A. Vasil'eva. V. N. Buchinskii Inst., Moscow. *Problemy Breeding i Muzhstvennoi Selsk. Kult. Nauk SSSR*, Ser. 2, No. 1, p. 85 (1947). *Izdat. Nauk. SSSR*, Moscow, No. 1, p. 85 (1947). Exam of inheritance of biochemical indexes (acid-soluble acidity, ascorbic acid content, amino acids, thiamine and riboflavin content, nicotinic acid, and leucovitamine B₁₂; phenoloxidase activity) in the exocarp and mesocarp of graft hybrids among varieties of peach plants gave the following results. The seed progeny show the characteristics of both hybrid components. Vegetative hybrids show in numerous cases enhanced biochemical processes so that the progeny differ from both initial individuals, and the fruits of such progeny differ from the parent fruit in appearance as well as in chem. compn., thus showing inheritance of acquired characteristics. Voluminous tabulated data are supplied.

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

ALL INFORMATION CONTAINED

HEREIN IS UNCLASSIFIED

DATE 09-24-2001 BY SPK

ALL INFORMATION CONTAINED

(The [redacted] [redacted])

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

GUSHCHENKO, I. Ye.

"In Memory of Petr Fedorovich Plesetskiy." Aerob. 4, 1949.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

GLUSHCHENKO, I. Ye. (Prof)

"Reactionary Genetics in the Service of Imperialisms"

Pravda, 5 April 1949
Sov Press Trans, Vol 4, No 11, 1 June 1949

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

RECORDED IN THE [REDACTED]

RECORDED IN THE [REDACTED]

RECORDED IN THE [REDACTED]

RECORDED IN THE [REDACTED] LIBRARY, [REDACTED], [REDACTED], [REDACTED].
(In [REDACTED] Library)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

GLUSHCHENKO, I, Ye.

USSR. "Agriculture"

Michurin's agrobiological science and its basic principles
Moskva, Gos. izd-vo sel'khoz. Lit-ry, 1950

Monthly List of Russian Acquisitions, Library of Congress, July 1952

Uncl.

GLUSHCHENKO, I.Ye.

Genetic qualitative differences in plant tissues. Probl.bot. no.1:
115-148 '50. (MIR 8:11)
(Chimeras (Botany))

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

GLASSHOUSE, J. A.

Identification of plants by Captain "P. J." (P. J. 15) by Miss Helene, J. A.

See: Report of Captain P. J. Riley, Vol. III, No. 1 (4), Supplement, 1944.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

CA

Biochemical characteristics of genetically different potato tissues. B. A. Rubin, I. E. Gluschenko, and O. N. Savelyeva (A. N. Bakh Inst. Biochem. Acad. Sci. U.S.S.R.). Doklady Akad. Nauk S.S.R. 72, 733-5 (1950). The modified White Zarnitsa potato obtained from adventive buds from the parenchyma of the normal Colored Zarnitsa potato. Agrobiology 1946, No. 1. Colored Zarnitsa potato shows a much more intensive starch synthesis (measured over the winter months) than the normal plant; the differences range up to 200% in the leaves and 800% in the tubers, with a more even course through the summer months than is observed in the normal plant. Most of the difference lies in better utilization of monosaccharides; the utilization of sucrose was about the same. The results are said to confirm Lysenko's views on chem. differentiation of organ tissues being connected with a genetic factor. G. M. K.

G E R M A
U S S R

The genesis of the plant cell. Ya. B. Ellengost, L. N. Glushchenko, and A. S. Afanasyeva. *Doklady Akad. Nauk S.S.R.* 80, 241-4 (1961); *Ches. Zemsl.* 1958, 6146. -- On the basis of expts. on animal material, Lepehinskaya (cf., *Invest. Akad. Nauk S.S.R.*, Ser. Biol. 1950, No. II, 103-0) has reported that cells do not necessarily arise from mother cells but may develop from material without cell structure. Accordingly, a similar study was undertaken with plant material. Observations reported on leaves of *Holms Actin* revealed not only a mitogenetic cell division but also a formation of new cells of another type involving splitting off or simple partition. Similar processes were observed in the increase in cells in potato tubers. The region of the potato in which cell increase was taking place by simple partition was neutral or slightly alk. In reaction, the remainder of the tuber showed an acid reaction. When plant fibers grow and develop a cell division and increase in the no. of cells are observed but mitogenetic processes are not always observed. M. G. Moore

1. GLUSHCHENKO, I. Ye. and DROKOV, A. A.
2. USSR (600)
4. Plants - Metabolism
7. Intake and distribution of radioactive elements in grafted plants and their effect on the development of tomato plants, Izv.AN SSSR Ser.biol. No. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

GLUSHCHENKO, I.Ye.; YEPIFANOVA, A.P.; NESMEYANOV, A.N., akademik,
redaktor; TOPCHIYEV, A.N., akademik, redaktor.

Trofim Denisovich Lysenko. Moskva, 1953. 128 p.

(MLRA 7:2)

1. Akademiya nauk SSSR.
(Lysenko, Trofim Denisovich, 1898-)
(Bibliography--Lysenko, Trofim Denisovich, 1898-)
(Lysenko, Trofim Denisovich, 1898- --Bibliography)

GLUSHCHENKO, I.Ye.; ELLENGORN, Ya.Ye.; AFANAS'YEVA, A.S.; ZHIRONKIN, I.M.

Origin and development of plant cells. Trudy Inst.gen. no.20:106-126
'53. (MIRA 7:1)

(Plant cells and tissues)

GLUSHCHENKO, I.YE.

MAYSKIY, I.N., professor, redaktor; LEPESHINSKAYA, O.B., redaktor;
SEVERIN, S.Ye., redaktor; IMSHENETSKIY, A.A., redaktor; GLUSHCHEN-
KO, I.Ye., professor, redaktor; KHRUSHCHEV, G.K., professor, re-
daktor; STUDITSKIY, A.N., professor, redaktor; VORONTSOVA, M.A.,
professor, redaktor; VYAZOV, O.Ye., kandidat meditsinskikh nauk,
redaktor; ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk, redaktor;
OBYSOV, N.A., redaktor

[New data on the problem of the development of cellular and non-
cellular forms of living] Novye dannye po probleme razvitiia
kletochnykh i nekletochnykh form zhivogo veshchestva; trudy.
Moskva, Gos. izd-vo med. lit-ry, 1954. 274 p. (MLRA 7:8)

1. Deystvitel'nyy chlen AMN SSSR (for Lepeshinskaya, Severin)
2. Chlen-korrespondent AN SSSR (for Imshenetskiy)
(Cells)

U.S.S.R., L.M.
USSR/Agriculture - Physiology

FD-377

Card 1/1

Author : Michurin, N. I., Glushchenko, I. Ye., Kuznetsov, K. P.,
Pshenichnyy, P. D., and Fayzulin, N. I.

Title : Problems of controlled heredity and vigor of plant and animal organisms

Periodical : Inv. Ak. SSSR, Ser. Biol., 3, 4-12, May, 1931.

Abstract : Controversy over Darwin's theory of natural selection revolved around the question of possibility of inheritance of acquired characteristics. Proponents of materialist-materialistic唯物主义 claimed that Darwinism contradicted the idealistic philosophy; their adversaries discredited their arguments against the materialistic foundations of Darwin's theory. Practical application of the principles of selection by I. V. Michurin resulted in the development of 12 improved varieties of agricultural animals. T. D. Lysenko's theory of phasal development of plants created some - conditions for development of new forms of sturdy winter wheat from summer wheat. The reason why agricultural science in the USSR has been lagging is due to inadequate coordination of theoretical work in all branches of biology and because practical utilization of breeding methods have not been properly carried out.

Institution :

Submitted : This article is an abridgement of a report, read at January 11, 1931, conference, sponsored by the Institute of Genetics, Academy of Sciences of the USSR, to coordinate research in genetics.

GLUSHCHENKO, I. E.

USSR/Miscellaneous - Propaganda

Card : 1/1

Authors : Glushchenko, I. E., Prof. Dr. of Biological Sc.

Title : In brotherly Bulgaria

Periodical : Nauka i Zhizn', 6, 39 - 40, June 1954

Abstract : The author speaks about the agricultural, industrial and political development of Bulgaria under the influence of the USSR. Illustrations.

Institution :

Submitted :

TELYATNIKOV, N.N.; VARUNTSYAN, I.S., akademik, red.; GLUSHCHENKO, I.Ye., doktor biolog.nauk, red.; YENIKEYEV, Kh.K., kand.biolog.nauk, red.; OL'SHANSKIY, M.A., akademik, red.; PEROV, S.V., kand.ekonom.nauk, red.; PREZENT, I.I., akademik, red.; KHALIFMAN, I.A., kand.biolog. nauk, red.; YAKOVLEV, P.N., akademik, red.; SAVZDARG, V.R., otd. za vypusk; BALLOD, A.I., tekhn.red.

[Michurin's teaching in the people's service; collection of articles] Michurinskoe uchenie na sluzhbe naroda; sbornik statei. Moskva, Gos.izd-vo sel'khoz.lit-ry. No.3. 1955. 238 p.
(MIRA 13:6)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina.
(Plant breeding) (Stock and stockbreeding)

TELYATNIKOV,N.N.; VARUNTSYAN,I.S., akademik, redaktor; GLUSHCHENKO,I.Ye., doktor biologicheskikh nauk, redaktor; YENIKEYEV,Kh.K., kandidat biologicheskikh nauk, redaktor; OL'SHANSKIY,M.A., akademik, redaktor; PEROV,S.V., kandidat ekonomicheskikh nauk, redaktor; PREZENT,I.I., akademik, redaktor; KHALIFMAN,I.A., kandidat biologicheskikh nauk, redaktor; YAKOVLEV,P.N., akademik, redaktor; BALLOD,A.I., tekhn. red.

[Michurin science in the service of the people; a collection of articles] Michurinskoe uchenie na sluzhbe narodu; sbornik statei. Moskva, Gos.izd-vo selkhoz.lit-ry. No.1. 1955. 269 p.

(MIRA 9:4)

1. Vsesoyuznaya Akademiya sel'skokhoziaistvennykh nauk imeni V.I.Lenina.
(Michurin, Ivan Vladimirovich, 1855-1935) (Plant breeding)

USSR/Biology - Cytology

FD-2392

Card 1/1 Pub. 42-5/9

Author : Eilengorn, Ya. Ye., Glushchenko, I. Ye., Ryabinina, M. N.

Title : Non-mitotic methods of reproduction in plant cells.

Periodical : Izv. AN SSSR. Ser. Biol. 2, 59-62, March-April, 1955

Abstract : Experimental Observations of special and modified forms of amitosis which are referred to by the author as non-mitotic are described. This included observations on the formation of a nucleus within a nucleus in the process of ontogenetic development of cells, the propagation of nuclei in relation to the division of nucleoli, the formation of a nucleus from baseophilic substances of the cell plasma, development of non-nucleated cell precursors, and the propagation of nuclei in the aerenchyma tissue of the tomato callus. Diagrams; photographs. Sixty one references, forty nine of these from the USSR (forty one after 1940).

Institution: Institute of Genetics, Acad Sci USSR

Submitted : --

GLUSHCHENKO, I.Ye.

AFANAS'YEVA, A.S.; GLUSHCHENKO, I.Ye.; ELLENGORN, Ya.Yo.

The process of callus formation in tomatoes. Izv.Ak SSSR,Ser.biol.
no.3:54-70 My-Je '55. (MIRA 8:7)

1. Institut genetiki Akademii nauk SSSR.
(TOMATOES)
(CALLUS (BOTANY))

GLUSHCHENKO, I.Ye.(Moskva); SAVINSKAYA, N.V.(Moskva).

Genetic qualitative differences in tissues and clonic selection
of potatoes. Usp.sovr.biol. 40 no.2:136-158 S-0 '55.(MLRA 9:2)
(POTATOES--VARIETIES)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

CLU HIGHWAY, T. Y.

RECORDED - TELETYPE TRANSMISSION

"The following is a copy of a teletype transmission received from
CLU HIGHWAY, T. Y., dated 10/10/67, transmitted by telephone, 10/10/67,
from the following address:

Go: [redacted] 10/10/67

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

GLUSHCHENKO, I.Ye.

[Phenomenon of polyfertilization in plants] Yavlenie mnogoshestvennogo
oplodotvorenija u rastenij. Moskva, Izd-vo Akad. nauk SSSR, 1956.
44 p. [Parallel texts in Russian and English]. (MIRA 11:6)
(Fertilization of plants)

MEDVEDEVA, Galina Borisovna; GLUSHCHENKO, I.Ye., otvetstvennyy redaktor;

[Biology of the fertilization of plants] Biologiya oplodotvorenija
rastenij. Moskva, Izd-vo Akademii nauk SSSR, 1956. 109 p.
(Fertilization of plants) (MLRA 10:1)

GLUSHCHENKO, I.Ye., professor

Michurin's theories abroad. Izv. AN SSSR. Ser. biol. no.1:18-28
Ja.-F '56 (MLRA 9:5)

(MICHURIN, IVAN VLADIMIROVICH, 1885-1935) (BIOLOGY)

GLUSHCHENKO, I.Ye.

Fundamental principles and first results in corn breeding at the
Institute of Genetics of the Academy of Sciences of the U.S.S.R.
Izv.AN SSR.Ser.biol. no.3:31-49 My-Je '56. (MLRA 9:8)

1. Institut genetiki Akademii nauk SSSR.
(CORN (MAIZE)--VARIETIES)

GLUSHCHENKO, I.Ye.

Michurin's teaching abroad. Trudy Inst. gen. no. 23: 34-46 '56.
(MIRA 10:1)
(Michurin, Ivan Vladimirovich, 1855-1935) (Genetics) (Agriculture)

GLUSHCHENKO, I.Ye.; TOVMASYAN, O.V.

Principles and first results in corn breeding at the Institute of
Genetics of the Academy of Sciences of the U.S.S.R. Trudy Inst.gen.,
no.23:47-59 '56.
(Corn breeding)

(MLRA 10:1)

GLUSHCHENKO, I.Ye., doktor biologicheskikh nauk, professor.

At the festivities devoted to Michurin in France and Belgium.
Nauka i zhizn' 23 no.3:52-57 Mr '56. (MLRA 9:7)
(Michurin, Ivan Vladimirovich, 1855-1935)

~~SECRET~~
GLUSHCHENKO, Ivan Yevdokimovich, akademik; STAROSTENKOVA, M.M., red.;
ATROSHCHENKO, L.Ye., tekhn.red.

[The present status of the problem of vegetative hybridization]
Sovremennoe sostoianie voprosa o vegetativnoi gibridizatsii.
Moskva, Izd-vo "Znanie," 1957. 31 p. (Vsesoyuznoe obshchestvo po
rasprostraneniu politicheskikh i nauchnykh znanii. Ser.3, no.52)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.V.I.Lenina
(for Glushchenko).
(Hybridization, Vegetable)

GLUSHCHENKO, I.Ye., akademik.

Occurrence of multiple fertilization in plants. Agrobiologija no.1:3-
18 Ja-F '57. (MIRA 10:4)

1. Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk im. Lenina.
2. Institut genetiki Akademii nauk SSSR.
(Fertilization of plants)

GLUSHCHENKO, I.Ye., akademik.

Paule Bouzy, Michurin's French follower. Agrobiologiya no.2:134-135
Mr-Ap '57. (MLRA 10:5)

1.Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk im. Lenina.
(Bouzy, Paule)

GLUSHCHENKO, I.Ye., akademik.

Development of work on vegetative hybridization. Agrobiologiya
no.5:106-118 S-O '57. (MIRA 10:10)

1. Vsesoyuznaya Akademiya sel'skogo khozyaystva im.V.I.Lenina.
2. Institut genetiki AN SSSR.
(Hybridization, Vegetable) (Grafting)

GLUSHCHENKO, I.Ye., red.; NUZHNIK, N.I., red.; PASHINSKAYA, T.N., red.;
PREZENT, I.I., red.; FEYGINSON, E.I., kand.sel'skokhoz.nauk, red.;
OZEROV, V.N., red.; ZUBRILINA, Z.P., tekhn.red.

[Achievements in the field of biological sciences; materials of the anniversary session of the All-Union Academy of Agricultural Sciences dedicated to the centennial of L.V.Michurin's birth] Dostizheniya biologicheskoi nauki; materialy iubileinoi sessii VASKhNIL, posviashchennoi 100-letiiu so dnia rozhdeniya I.V.Michurina. Pod red. I.E. Glushchenko i dr. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 374 p.

(MERA 12:10)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Moskovskiy gosudarstvennyy universitet, kafedra genetiki i selektsii (for Feyginson).

(Biology)

LYSENKO, T.D.; OL'SHANSKIY, M.A.; SINYAGIN, I.I.; GLUSHCHENKO, I.Ye.;
VARUNTSYAN, I.S.; PREZENT, I.I.; SHCHEGOLOVSKIY, N.S.; SHULIKOV,
V.I.; YEVSTIGNEYEV, S.N.; BOCHEVER, A.M.; LITVIN, V.M.; YAYKOVA,
A.T.; PODVOYSKIY, I.I.; SAKS, Ye.I.; KHALIFMAN, I.A.; FHYGINSON,
N.I.; SHCHEGLOVA, Yu.N.; DLUGACH, G.V.; STERNIN, R.A.; LISOVSKAYA,
O.V.; GUBINA, T.I.; ROZENFEL'D, M.I.; TSVETATEVA, Ye.M.; PARKHO-
MENKO, Ye.V.; NEYMAN, N.F.

Sofia Iakovlevna Voitinskaia; an obituary. Agrobiologiya no.4:121
Jl-Ag '58. (MIRA 11:9)
(Voitinskaia, Sofi'ia Iakovlevna, 1898-1958)

GLUSHCHENKO, I.Ye., akademik

Comments on the 10th International Congress on Genetics.
Agrobiologija no.6:145-154 N-D '58. (MIRA 12:1)
(Edinburgh--Genetics--Congresses)

GLUSHCHENKO, I.Ye.

Phenomenon of multiple fertilization in plants. Trudy Inst. Zem.
no.24:99-116 '58. (MIRA 11:9)
(Fertilization of plants)

GLUSHCHENKO, I. Ye.

"New Works in the Field of Vegetative Hybridization"

reported at Conference on Problem of Heredity and Variability, held at
Institute of Genetics, AS USSR, 8-14 Oct 1957
Vestnik AN SSSR, 1958, Vol. 28, No. 1, pp. 127-129 (author Kushner, Kh. F.)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

See also: "Soviet Union: Soviet
GUARDUCHENKO, I.E. and GOMZIAN, D.V.

"The Montenegrin Action of the Popular Patriotic Self-Defensive Guerrillas."
Paper submitted to the First International Congress, Moscow, 1920. Translated by
Institute of Foreign Languages, Academy of Sciences of USSR, Moscow.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

GLUSHCHENKO, Ivan Yevdokimovich, akademik; SUKHOV, A.D., red.; ATROSHCHENKO,
L.Ye., tekhn.red.

[At the Congress of Genetics in Canada] Na kongresse genetikov
v Kanade. Moskva, Izd-vo "Znanie," 1959. 31 p. (Vsesoiuznoe
obshchestvo po rasprostraneniu politicheskikh i nauchnykh znanii.
Ser. 8. Biologiya i meditsina, no.7) (MIRA 12:5)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.
Lenina (for Glushchenko).
(MONTREAL--GENETICS--CONGRESSES)

GLAVINICH, R. [Glavinić, Ružica], prof.; YESHICH, Z. [translator];
GLUSHCHENKO, I.Ye., akademik, red.; POMINA, N., red.;
KHAR'KOVSKAYA, E.M., tekhn.red.

[Heredity alteration in plants through grafting] Izmenenie
nasledstvennosti rastenii putem privivki. Pod red. I.E.
Glushchenko. Moskva, Izd-vo inostr.lit-ry, 1959. 154 p.
(MIRA 12:10)

1. Belgradskiy universitet (for Glavinich). 2. Vsesoyuznaya
akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for
Glushchenko).
(Grafting) (Heredity)

GLUSHCHENKO, I.Ye., akademik

Constant factors in the vegetative hybridization of plants.
Dokl.Akad.sel'khoz. 24 no.1:13-20 '59. (MIRA 12:2)

1. Institut genetiki AN SSSR.
(Plant breeding) (Grafting)

GLUSHCHENKO, I.Ye., akademik; AENAS'YEVA, A.S., kand.biolog.nauk;
NOVOZHILOVA, N.P.

Effect of X rays on intracellular changes in certain cereals.
Dokl.akad.sel'skhoz. 24 no.9:3-9 '59. (MIR 13:1)

1. Institut genetiki Akademii nauk SSSR.
(GRAIN) (X RAYS--PHYSIOLOGICAL EFFECT)

GLUSHCHENKO, I.Ye. [Glushchenko, I.IE.], akademik

Great transformer of nature. Nauka i zhystia 19 no.6:
27-29 Je '60. (MIRA 15:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
Lenina, Moskva.
(Michurin, Ivan Vladimirovich, 1855-1935)

GLUSHCHENKO, I. Ye.

Michurin's teachings still live and are being further developed.
Nauka i zhizn' 27 no.6:35-40 Je '60. (MIRA 13:7)

1. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni V.I.Lenina.
(MICHURIN, IVAN VLADIMIROVICH, 1855-1935)
(BIOLOGY)

GLUSHCHENKO, I.Ye.; ZAKHAROVA, G.M.

Effect of ionizing radiations on the development of wheat
and oat plants. Trudy Inst. gen. no. 27:304-310 '60.
(MIRA 13:12)
(Plants, Effect of X rays on) (Wheat) (Oats)

GLUSHCHENKO, I.Ye., otv.red.; GUZHEV, Yu.L., red.; KAGANOV, V.M.,
red.; KUSHNER, Kh.P., red.; MUZHDIN, N.I., red.; PLATONOV, G.V.,
red.; FEYGINSON, M.I., red.ind-za; BRUZGUL', V.T., tekhn.red.

[Darwinism lives and develops; transactions of the jubilee
conference dedicated to the 100th anniversary of the publication
of C.Darwin's "Origin of species" and the 150th anniversary of the
publication of J.Lamarck's "Philosophy of zoology," Nov.19-21,
1959] Darwinizm zhivet i razvivaetsia; trudy jubileinoi konferentsii,
poeviashchennoi 100-letiu opublikovannia "Filosofii zoologii"
Zh.Lamarka, 19-21 noisabria 1959 g. Moskva, 1960. 217 p.
(MIHA 14:2)

1. Akademiya nauk SSSR. Institut genetiki.
(Evolution--Congresses)

LENKEV, Khasan Karimovich; GLUSHCHENKO, I.Ye., akademik, otv.red.;
MAKAROVA, O.V., red.izd-va; NOVICHKOVA, N.D., tekhn.red.

[Biological characteristics of plums and the introduction of
new varieties] Biologicheskie osobennosti slivy i vyvedenie
novykh sortov. Moskva, Izd-vo Akad.nauk SSSR, 1960. 320 p.
(MIRA 14:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
V.I.Lenina (for Glushchenko).
(Plum--Varieties)

GLUSHCHENKO, I.Ye.; TOVMASYAN, O.V.

Charles Darwin and some problems related to the fertilization
of plants. Trudy Inst. gen. no. 27:234-245 '60.
(MIRA 1]:12)
(Plant breeding)

GLUSHCHENKO, Ivan Yevdokimovich; TETYUREVA, I.V., red.; GUREVICH, M.A.,
tekhnicheskaya red.

[Heredity and variability in cultivated plants] Nasledstvennost' i
izmenchivost' kul'turnykh rastenii. Moskva, Gos. izd-vo sel'skhoz.
lit-ry, 1961. 552 p. (MIRA 14:9)
(Plant breeding) (Heredity)

GLUSHCHENKO, I.Ye., akademik; ZAKHAROVA, G.M., kand.biologicheskikh nauk

Obtaining Avena fatua from Avena sativa under the influence of
ionizing radiation. Agrobiologiya no. 3:402-409 My-Je '61.
(MIRA 14:5)

1. Institut genetiki Akademii nauk SSSR. 2. Vsesoyuznaya akademiya
sel'skokhozyaystvennykh nauk imeni Lenina (for Glushchenko).
(Oats) (Plants, Effect of radiation on)

GLUSHCHENKO, I.Ye.; SAVINSKAYA, N.V.

Effect of different fertilization rates on seed qualities of
potatoes. Trudy Inst. gen. no.28:60-64 '61. (MIA 14:11)
(POTATOES--FERTILIZERS AND MANURES)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

GLUSHCHENKO, I.Ye.; ZAKHAROVA, G.M.

Effect of X rays on the development of hybrid wheat. Trudy Inst.
gen. no.28:146-152 '61. (MIRA 14:11)

(PLANTS, EFFECT OF X RAYS ON)
(WHEAT BREEDING)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

GLUSHCHENKO, I.Ye.

Contributions in the biological science to agriculture. Izv.
AN SSSR. Ser. biol. 26 no.5:669-678 S-0 '61. (MIRA 14:9)

I. Institute of Genetics, Academy of Sciences of the U.S.S.R.,
Moscow.
(GENETICS)

GLUSCHENKO, I.Ya., akademik

Vegetative hybridization of eggplants and cabbages,
Agrobiologiya no.6 854-869 N.D. '61. (MIRA 15:2)

1. Institut genetiki Akademii nauk SSSR i Vsesoyuznaya
radiotsentralizovannaya sredstva informatsii imeni Lenina,

(Graff. n.3)

(Egg, leaf)

(cabbage)

GLUSHCHENKO, I.Ye.; KHLISTOVA, A.F.

Vegetative hybridization of cabbage. Izv. AN SSSR. Ser. biol.
no.3:392-405 May-Je '62. (MIRA 15:6)

1. Institute of Genetics, Academy of Sciences of the U.S.S.R.,
Moscow.

(CABBAGE) (GRAFTING)

S/670/62/000/C29/001/006
D291/D307

AUTHORS: Glushchenko, I.Ye. and Zal'harova, G.M.

TITLE: The process of the origin of forms of oats under
the influence of ionizing radiation

SOURCE: Akademiya nauk SSSR, Institut genetiki, Trudy.
no. 29, 1962, 164-177

TEXT: Studies by Soviet and foreign workers have shown that fatuoid types may occur in oat populations as a result of unfavorable factors, e.g. low temperatures and chemical treatments and ionizing radiation. In an attempt to explore further the effects of the latter, dry seeds of the varieties Pobeda and Dipyre, both of which have white grains and are either awnless or slender-awned, were exposed to X-ray doses of 13,000 and 8,000 r, respectively. In both cases, the X_1 and X_2 generations displayed wide variability in respect of awn characteristics, the following categories being recognized: 1) awnless, 2) awns, 3) coarse awns, 4) coarse, slightly curved awns, and 5) coarse curved awns. The progeny of nonirradiated

Card 1/2

The process of the origin ...

S/670/62/000/029/001/006
D291/D307

ated control material contained only categories 1 and 2. The X_3 and X_4 generations derived from plants having the type 5 awn contained a significant proportion of faturoids, the actual number varying in different families. The X_3 of Pobeda contained 4.3% of fatuoids and the X_4 5.5%, the corresponding figures for Dippe being 9.4 and 32.7%. One X_3 Pobeda plant and two X_2 Dippe plants bore a mixture of normal and fatuoid spikelets. No fatuoids occurred in control material or in the X_3 and X_4 derived from awnless or straight-awned plants. The occurrence of fatuoids is attributed to physiological disturbances, which results in an unstable hereditary base in forms with crude, curved awns. There are 8 figures and 6 tables.

Card 2/2

PEYGINSON, Roy H. iin, GLUCHENKO, I. G., akademik, red.; TETYREVA, I. V.,
red.; DEBEVA, V. M., tekst, ruk.

[Corpuscular genetika] Korpuskul'naya genetika; kritiches-
kij obzor. - Moskva: Sels.-khozyaystvennye nauki Izdat.
(MIRA 16:6)

I. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk Izdat
V. I. Benina (iin Gluchenko). - Genetika.

GLUSHCHENKO, I.Ye.

Vegetative hybridization and its importance in plant breeding.
Trudy Inst. gen. no.29;40-66 '62. (MIRA 16:7)

(Grafting)

KUSHNER, Kh.F., otv. red.; GLUSHCHENKO, I.Ya., red.; YENIKEYEV,
Kh.K., red.; KOSIKOV, K.V., red.; MUZHDIN, M.I., red.;
PASHINSKAYA, T.N., red.; POLYAKOV, I.M., red.; PREZENT,
I.I., red.; SUKHOV, K.S., red.; FEYGINSON, N.I., red. izd-va;
UL'YANOVA, O.G., tekhn. red.

[Genetics in agriculture] Genetika - sel'skomu khoziaistvu.
Moskva, Izd-vo AN SSSR, 1963 794 p. (MIRA 16:9)

1. Akademiya nauk SSSR. Institut genetiki,
(Plant breeding) (Stock and stockbreeding)

GLUSHCHENKO, I. Ye.

"The Study of Intraspecific Cabbage Chimeras and Their Seed Progeny.

report submitted for the 11th Intl. Congress of Genetics, The Hague,
Netherlands, 2-10 Sep 63

GUSHSHENKO, Ivan Yevdokimovich, p. 11, T. M.R., red. Izd-vo;
ASTAF'YEVA, Yu.A., teknn. red.

[Countries, meetings, scientific notes of a biologist]
Strany, vstrechi, uchenye, sojuzi biologa. Moskva, izd-
vo AN SSSR, 1963 447 p. (MIRA 16:10)
(Voyages and travels)

VASIL'YEV, Ivan Mitrofanovich; GUMACHEV, I.Ye., akademik, tv.
red.; KAYEV, V.A., red. lir.-vy; CHETINA, I.I., tezlin.red.

[("Keys of death" and the life of plants) "Luchii smerti" i
zhizn' rastenii. Markvi, Izd-vo AN SSSR, 1951. 77 p.
(MFA 1711)

I. Vasil'yevsky - author; V.A. Kayev - editor; I.I. Chetina - tezlin.
ineni V.I.Lenina (for distribution).

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

GLUSHCHENKO, I.Ye.

Remarkable landmark of science; the fiftieth anniversary of the
Lysenko All-Union Institute of Plant Breeding and Genetics. Trudy
Inst. gen. no.30:18-28 1963. (MIRA 17:1)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

GLUSHCHENKO, I.Ye.; KRUZHKOVA, I.V.; SEMENOV, O.G.; BUKINA, V.A.

Objectives of selection work in the non-Chernozem zone, Izv.
AN SSSR, Ser. biol. no.5:769-778 S-0 '64. (MIRA 17:9)

1. Institute of Genetics of the U.S.S.R. Academy of Sciences,
Moscow.

GLUSHCHENKO, I.Ye.

Significance of the principle of geographically remote hybridization
in creating the varieties of agricultural plants. Trudy Inst. gen.
no.31:80-88 '64. (NIRA 17:9)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

SAKHAROV, G.S., kandidat tekhnicheskikh nauk; GLUSHCHENKO, E.I.

Smokeless lubricant for die stamps in making forgings. Avt. i trakt.prom.
no.3:38-41 Mr '56.
(MLRA 9:7)

1.Moskovskiy Aviatsionnyy tekhnologicheskiy institut i NIIT Avtoprom.
(Sheet-metal work)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

GLASHENKOV K.S.

USSR/Cultivated Plants - General Problems.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15462

Author : N.V. Kovalev, K.S. Glushchenko, P.I. Tupitsyn

Inst : Shreder Fruit and Berry Institute.

Title : Fruit and Berry Crops in the Down Stream Region of the Amu-Dar'ya.
(Plodovyye i ovoshchnyye kul'tury v nizov'yakh Amu-Dar'i).

Orig Pub : V sb.: Materialy po prirudnit. silam Uzbekistana.
Vyp. 2. Tashkent, AN UMSR, 1956, 5-89.

Abstract : In the down stream regions of the Amu-Dar'ya in Kara-Kalpak ASSR and Khorezmskaya Oblast' the garden areas may be increased from 3200 hectares to 15-20 thousand hectares. The results of the study made by the Expedition of the Fruit and Berry Institute im. Shreder are

Card 1/3

USSR/Cultivated Plants - General Problems.

M.

Abs Jour : Ref Thur - Biol., No 4, 1958, 19462

discussed which was made in this zone in 1951-1953. The Tashauzskaya Oblast' of Turkmenistan has also been investigated. The cultivation of apples, grapes and apricots is recommended. At present apples occupy 5-11% of all the orchard area. Recommended varieties are the white rosemary, Sinirenko rennet, Orleans rennet, the summer golden parmen, the Grayma golden, Kondil'-Sinap, the jonathan, Borovinka, the melta, and among the new varieties, the gulyandom, Tallya-alma, the Tashkent rennet, and several local varieties. At the Khorczinsk Oasis the pear crop goes back ~2 thousand years. Seven percent of the area of the new orchards (~2 thousand hectares) is planned for pears. The local varieties of apricots are classified and the best of these are recommended. The local apricot varieties exhibit greater winter hardiness, heat resistance and salt resistance. The local forms of pear, apricot, plum, cherry,

Card 2/3

USSR/Cultivated Plants - Fruits. Berries.

L-1.

Abs Jour : Ref Zhur - Biologiya, No. 6, 25 Aug 1957, 69%4

Author : Kovale N.V., Glushchenko, K.S., Tupitsin, D.I.

Inst :
Title : Summer Stoppage of Growth of Fruit Trees.

Orig Pub : Dokl. AN UzSSR, 1956, No. 4, 45-49

Abst : Experiments were conducted in the Shreder fruit-erry institute (Uzbek SSR) on the effect of agrotechnique in periods of shoot growth. The experiments were conducted on a Bely (white) maliv apple tree for 8 years. The effect of different systems of fertilization and irrigation were studied. It was established that neither the agrotechnique nor the length of daylight, nor air or soil temperatures were the causes of growth stoppage. The basic reason for growth stoppage in irrigation environments of optimal humidity was the abundant growth of leafy surface (at the end of May). In normally irrigated orchards the

Card 1/2

WORK/C. Estimated Period: - From 1970 to Present.

M

Abs. No.: Ref. No. Riel, No. 43, 1976, 34-1

Author : Koval'ev, N.Y., G. Sivchenko, K.S.

First : AG Uralosc RKh

Title : Growth of the Apple Fruit Tree as an Indicator of Supply and Demand Conditions.

Origi. Publ.: "Tekhnika i Tekhnologiya", 1976, No. 10.

Abstract : An attempt is made to find a method of predicting the development of a fruit-growing industry by studying the growth of a 2-year-old stock. The authors studied the growth of trees grafted with "Anand" and "P. 102" varieties. A 10% potassium fertilizer was applied and the trees were sprayed with a 1% solution of copper sulfate after the start of growth. The growth of the stock was measured after 10 days. The authors conclude that the growth of the stock, which shows a positive trend, will continue. By the 10th of July the lateral branches began to grow. By the 10th of July

Carri 1/3

- 105 -

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zher Biol., No. 8, 1956, 824p

the axial shoot grew to 90-117 centimeters and had 13-20 axillary leaves. Pye took the apple tree (Belyy Naliv) and grafted on the stock developed into a small tree 1.5-1.8 meters in height with 16-27 lateral shoots. In spring, a cutting was transferred onto the stump of a 15-year old apple tree Renet Simirenko. A bud formed from the stump, a shoot started to grow after 35 days and by the 15 of July it reached a height of 97 centimeters. It had 32 lateral shoots of 10-20 centimeters in length. The total growth increment from one bud according to this data comprised 133 centimeters. Such growth increment was obtained at the expense of intensified feeding from the enormous root system. Cessation of growth may be brought about either by the advent of cold weather (winter) or moisture deficiency (drought). The growth of the shoots of an adult tree proceeds differently. Experiment with an apple tree of Belyy Naliv is cited.

Card 2/3

USSR/Cultivated Plants - Fruits, Berries.

M

Abs. No. : Ref. Zhur. Biol., No. 13, 1950, 12471

250 kilograms of N and 25 kilograms of P were applied on shoots (in two applications). In one variant, no lowering of the moist re content below 10% was permitted in the 2-meter layer, and in another - below 15%. In all the variants, the growth of the shoots began to die down about the 20th of May. With the cutting of the shoot after four-six days of growth (after 30 days), a shoot grew again on the cut. If the end shoots were cut off a large branch, the cutting proceeded only on some of them (on 1/3 of the branch cut off). In the fruit bearing apple tree, growth is observed only until the end of May even with the optimum conditions of feeding and watering. Because of the diversion of nutritional substances at other processes, the growth cannot resume. Although in trees of fruit bearing varieties (apricot) the growth resumes after the cutting of the tip, it proceeds in a fruit bearing branch away from the growth bud which formed

in summer. -- Ye.T. Zhukovskaya

Card 3/3

- 103 -

EL'CHENKO, K. V. (and others) - (title: "Recommendations and aids for
the growing of plastic material for roofs in Uzbekistan." Tashkent,
1947. 11 pp. (Min of Agriculture Uzbek. Tashkent Agr Inst), 110 copies
(KL, 6-AB, 1.1)

1. Location: Tashkent
2. Country: Soviet Union - Republic of Uzbekistan
3. Date: 10/10/1986
4. Source: U.S. Embassy Tashkent

5. Description of item: Soviet military aircraft

6. Origin: Soviet Union - Republic of Uzbekistan

7. Summary: The aircraft was captured from an identification zone of
the Soviet Union. It was found to be a MiG-21 fighter aircraft in a mature
state of disrepair, located in the Tashkent Oasis
of Kazakhstan. The identification arrangement
is as follows: A small plaque is taken at the
bottom of the aircraft to mark its impact on gravelly
soil.

8. Date: 10/10/1986

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

BUCHANAN, R. A.

Dissertation: "Studies on the reaction of the skin to pathologic tissue. Clinical Dermatoses." Submitted 1911, received 1912. Advisor: Dr. Frank G. Murphy, M.D., Harvard
Academican. A.A. complete, C. in S. Previous writing, 1909, 1910.

BOSTON, MASSACHUSETTS.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

GLUCHENKO, L. F. and TOLUBINSKIY, V. I.

Major General, Soviet Air Force, Deputy Commander-in-Chief of the Soviet Air Forces.
Major General, Soviet Air Force, Head, Military Planning Board, Ministry of Automobile Industry,
Deputy Minister of Defense, Member of Central Committee of CPSU, Member of Presidium of the Supreme Soviet of the USSR.
Kiev, 24 April 1944.

On behalf of the Ministry of Defense, USSR, Generalissimo Commissar
JPSC D.A., 24 April 1944.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1"

ACCESSION NR: AP4004148

S/0294/63/001/002/0260/0266

AUTHORS: Ornatskiy, A. P.; Glushchenko, L. F.

TITLE: Investigating hydraulic resistance in surface boiling of water in annular ducts

SOURCE: Teplofizika vysokikh temperatur, v. 1, no. 2, 1963, 260-266

TOPIC TAGS: hydraulic resistance, annular duct flow, annular duct heat transfer, surface boiling, heat exchanger, fuel element cooling, nuclear reactor fuel element, reactor cooling, boiling water, reactor, nuclear reactor, fuel element

ABSTRACT: Results are reported of investigations made in a pressure range from 5 to 175 atm. flow rate 500 to 3,000 kg/m² sec, temperature differential from 2-3 to 80°C, and heat flux from 0.5×10^6 to 2.0×10^6 kcal/m² hr. The experimental setup used is described in Teploenergetika No. 8, 1961. The experimental element was an annular duct made up of two stainless steel (1Kh18N9T) tubes with inside diameter 10 mm and gap widths 1.0, 1.5, and 2.0 mm. The length

Card 1/2

ACCESSION NR: AP4004148

of the measuring section was 150 mm. The measurement procedures are described. A special series of experiments was devoted to the clarification of the contradictory published data on hydraulic resistance. Empirical formulas are derived from the experimental data to calculate the hydraulic resistance. The results of the empirical formulas agree well with results obtained for pipes by N. V. Tarasova and V. M. Orlov (Teploenergetika No. 6, 1962). Orig. art. has: 6 figures and 3 formulas.

ASSOCIATION: Kievskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

SUBMITTED: 06May63 DATE ACQ: 26Dec63 ENCL: 00

SUB CODE: PR, AS NO REF SOV: 004 OTHER: 002

Card 2/2

8.19048-65 EWT(1)/EPF(c)/EPF(n)-2/EPR/T/EPA(bb)-2/EWA(1)
AFMDC/AEDC(a)/ASD(f)-2/AFETR WW
ACCESSION NR: AP5001155

Pr-1/Pb-1/Pu-1

S/02/14/64/001/006/0910/0911

AUTHORS: Ornatskiy, A. P.; Glushchenko, L. F.; Chernobay, V. A.

TITLE: Effect of pressure on hydraulic resistance during surface boiling

SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 6, 1964, 910-914

TOPIC TAGS: hydraulic resistance, boiling, turbulence, convective heat transfer

ABSTRACT: A special set of experiments was performed in small diameter tubes and circular channels to clarify the conflicting data published in the literature on the effect of pressure on the magnitude of hydraulic resistance during surface boiling. The tubes were 2 mm in diameter and 46 mm long. The mass velocity was $10^4 \text{ kg} \cdot \text{m}^{-2} \cdot \text{sec}^{-1}$, Δt (underheat) = 50°C to 100°C and $p = 9.8 \times 10^5$ to $49.1 \times 10^5 \text{ N/m}^2$. (In a circular channel, $p = 4.9 \times 10^5$ to $171.7 \times 10^5 \text{ N/m}^2$.) The results showed that the hydraulic resistance of the tubes during surface boiling of water was independent of the pressure in the range 10×10^5 to $150 \times 10^5 \text{ N/m}^2$. Over the ranges tested, the results indicated that the change in the liquid and vapor physical constants shows no effect on the hydraulic resistance during surface boiling. Thus, the hydraulic resistance under such conditions cannot be determined.

Card 1/2

L 19048-65

ACCESSION NR: AP5001155

by the viscous properties of the liquid, and it is quite independent of "vapor roughness." Further tests were conducted in 2-mm tubes heated by electric currents and cooled by distilled water to obtain a developed surface boiling process as well as a convective heat transfer process without surface boiling. These results showed that the fundamental reason for the rise in hydraulic resistance during surface boiling is a loss caused by the displacement of a liquid mass from the near-wall layer into the core of the flow. The magnitude of this rise is found to depend on the ratio of the displaced fluid mass to that of the total mass flow at a given cross section per unit time. Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

SUBMITTED: 18May64

ENCL: 00

SUB CODE: ME

NO REF Sov: 006

OTHER: 001

Card 2/2

REF ID: A6513

ACCESSION NR: AT5004212

AUTHOR: Tolubinskiy, V. I. (Corresponding member AN UkrSSR); Gashchuk, O. I.

TITLE: Heat exchange during boiling of underheated liquid in an annular channel

SOURCE: AN UkrSSR. Institut tehnicheskoy teplofiziki. Teplofizika i teplo-
tekhnika (Thermophysics and heat engineering). Kiev, Naukova Dumka, 1964, 5-9 4/2

TOPIC TAGS: heat exchange, boiling, heat transfer coefficient, Prandtl number,
Nusselt number

ABSTRACT: In view of the discrepancies in the published theoretical values of
the heat transfer coefficient for surface boiling, the authors report the results
of experiments carried out at the Problem Laboratory of the Kievskiy politekhnicheskiy institut (Kiev Polytechnic Institute). A steel (1Kh18N9Ti) annular chan-
nel was made up of two tubes. The diameter of the inside tube was constant at
10 mm, while that of the outer tube was varied to produce gaps of 1.0, 1.5, and
2.0 mm. The working length of the element was 150 mm, broken up into 3 measure-
ment sections 50 mm each. Each tube was heated with direct current from a sepa-
rate generator. Distilled water was the coolant. The parameter ranges were:

Card 1/2

L 40020-65
ACCESSION NR: AT5004212

heat flux q -- 0.58 to 2.33 MW/m²; weight velocity -- 4.9 to 29.42 m/m²sec; pressure P -- 5.066, 7.599, 10.133, 13.18, 15.199, and 17.712 MN/m² underheat below saturation temperature -- 0 to 70°. The temperatures of the inside and outside tubes were measured with moving and fixed thermocouples, respectively, accurate to 1°. The log-log plot of the heat transfer coefficient α , heat flow was straight within $\pm 10\%$, on the basis of which an empirical formula $\alpha_{boil} = 0.533q^{0.7}P^{0.15}$ is deduced for the heat transfer coefficient. It is concluded from the results that for developed surface boiling the heat transfer coefficient can be regarded as independent of the underheating, the weight velocity, and the geometrical dimensions of the channel. In annular channels and at appreciable velocities of the heated liquid, the heat transfer coefficients are somewhat lower than for boiling in large volumes. This corresponds to a criterial formula $Nu = 75K^{0.7}Pr^{0.2}$. Orig. art. has: 2 figures and 7 formulas.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiev 'Order of Lenin' Polytechnic Institute)

SUBMITTED: 10Aug64	ENCL: 00	SUB CODE: TD, ME
NR REF Sov: 000	OTHER: 000	
Card 2/2 do		

L 21987-66 EWT(1)/EPF(n)-2/ETC(m)-6 WW/GG

ACCESSION NR: AP5025987

UR/0294/65/003/005/0727/0730

532.543.6:536.423.1

37

36

B

ANTRAG: Ornatskiy, A. P.; Glushchenko, L. F.

TITLE: The hydraulic resistance of annular channels with surface boiling of water at pressures of 172 to 216 bars

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 727-730

TOPIC TAGS: hydraulic resistance, boiling, water, high pressure *research*

ABSTRACT: Experiments were carried out at pressures of 172-216 bars, mass velocities of 1000 and 2000 kg/m²-sec, specific heat fluxes of 0.5 and 1.0 megawatts/m², underheating from 5-10 to 80-90C, and with a width of the annular gap of 1.5 mm. Results are shown graphically. In the region of ultrahigh pressures, right up to pressures close to the critical (216 bars), the appearance of boiling of the liquid in the layer close to the wall causes a rise in the hydraulic resistance of the channel, as in earlier investigations in a pressure range of 4.9 to 172 bars. This indicates that the mechanism of hydraulic resistance in the presence of surface boiling is qualitatively identical in the regions of low, high,

Card 1/2

L 21987-66

ACCESSION NR: AP5025987

and ultrahigh pressures. The magnitude of the hydraulic resistance with surface boiling in the ultrahigh pressure region (172-216 bars) is practically independent of the pressure, within the range of 4.9 to 216 bars. An empirical equation is derived which is said to be applicable for determination of the hydraulic resistance under the above conditions up to a pressure of 216 bars. Orig. art. has: 2 formulas and 4 figures

ASSOCIATION: Klyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

SUBMITTED: 09Jun64 ENCL: 00 SUB CODE: 20

NR REF SOV: 001 OTHER: 000

Card 2/2 N

ACC NR: AP602160 (U) SOURCE CODE: UAC000/00/000/010/00E6/0069

AUTHOR: Ornatskiy, A. P. (Candidate of technical sciences); Kichigin, A. M. (Candidate of technical sciences); Glushchenko, L. F. (Candidate of technical sciences)

ORG: Kiev Polytechnical Institute (Kiyevskiy politekhnicheskiy institut)

TITLE: Studying critical heat flux in annular channels during external heating

SOURCE: Teploenergetika, no. 10, 1966, 66-69

TOPIC TAGS: heat flux pickup, heat transfer, heat measurement, flow velocity

ABSTRACT: Experimental data are given on the magnitude of critical heat flux as a function of mass velocity, pressure and underheating during forced circulation of water in annular channels under conditions of unilateral heating. The experiments were carried out at the Laboratory of Heat Exchange Problems and Gas Dynamics of Kiev Polytechnical Institute in 1963-1964 at pressures of 9.8, 24.5, 49.1, 73.6, 98.1, 122.5, 147, 172, 180.4, 196, 201 and 216 bars with underheating variation limits of +750 to 100 KJ/kg. The basic tests were done at mass velocities of 1000 and 2000 kg/m²·sec. All experiments were carried out under external heating conditions. A diagram is given showing the experimental unit. A comparison of the experimental and theoretical data shows disagreement which is apparently due to the fact that most of the work on this problem has been done at higher mass velocities that were used in this study. An empirical formula is given for calculating the magnitude of critical heat flux for engineering purposes. Orig. art. has: 7 figures, 1 table, 1 formula.

SUB CODE: 20/ SUBM DATE: None/ ORIG REF: C08

UDC: 536.24.532.3.536.68

Card 1/1

MITROFANOV, V.; ZUYEV, I.; MASHKANTSAN, S.; YARTSEV, G.; KAMKIN, L.; ZBARKIY,
S.; GLUSHCHENKO, M.; ROZKIN, G.

Shortcomings of the stage system of teaching. Prof.-tekhn. obr. 21
(MIRA 17:11)
no.7:25-31 J1 '64.

1. Nachal'nik otdela podgotovki kadrov Yuzhno-Ural'skogo soveta narodnogo khozyaystva (for Mitrofanov) 2. Direktor tsentral'nogo uchebnogo kombinata Yuzhno-Ural'skogo soveta narodnogo khozyaystva (for Zuyev). 3. Nachal'nik otdela tekhnicheskogo obucheniya Chelyabinskogo traktornogo zavoda (for Yartsev). 4. Nachal'nik otdela tekhnicheskogo obucheniya Chelyabinskogo metallurgicheskogo zavoda (for Kamkin). 5. Direktor TSentral'nogo uchebnogo kombinata "Glavyuzhuralstroy" (for Zbarskiy). 6. Nachal'nik otdela tekhnicheskogo obucheniya Magnitogorskogo metallurgicheskogo kombinata (for Glushchenko).

YAROSHENKO, Petr Nikiforovich; GLUSHCHENKO, M.A. [Glushchenko, M.A.],
red.; ZUBAREV, A.S. [Zubarev, A.S.], tekhn. red.

[Sowing and planting machines] Posivni i sadyl'ni mashyny.
Kyiv, Derzhsil'hospvydav U.R.S.R., 1962. 217 p.
(MIRA 16:4)

(Agricultural machinery)